PCT

INTERNATIONAL-TYPE SEARCH REPORT

(PCT Article 15.5)

National application No. 0003810-9	Country or Office of SE	f filing	Applicant's or agent's file reference 00382-SE
Filing date (day/month/year)		(Earliest) Priority	Date (day:month/year)
20 October 2000			
Applicant			
Pharmacia AB			
Date of request for international-type sea	arcn		search request No.
20 October 2000		SE 00/01238	
This international-type search report hat to the applicant. This international-type search report co	onsists of a total of	6 sheets.	
Certain claims were found uns Unity of invention is lacking (S	.,		
international-type search was	carried out on the based with the international	sis of the sequence l	amino acid sequence listing and the isting end the isting
	but not accom	panied by a statem	ent to the effect that it did not include e in the international application as filed.
	scribed by this Autho		
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Search request No. SE00/01238

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This inte	emational-type search report has not been established in respect of certain claims for the following reasons:
1. 🖂	Claims No.: 16-18 because they relate to subject matter not required to be searched by this Authority, namely:
	see next sheet*
2. 🛛	Claims No.: 8-9, 12, 14 because they relate to parts of the national application that do not comply with the prescribed requirements to such an extent that no meaningful international-type search can be carried out, specifically:
	see next sheet**
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	mational Searching Authority found multiple inventions in this application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this international-type search report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international-type search report covers only those claims for which fees were paid, specifically claims No.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international-type search report is restricted to the invention first mentioned in the claims, it is covered by claims No.:

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of:

Box I.1

Claims 16-18 relate to methods of treatment of the human or animal body by surgery or by therapy/ diagnostic methods practised on the human or animal body/Rule 39.1.(iv). Nevertheless, a search has been executed for these claims. The search has been based on the alleged effects of the compounds/compositions.

Box I.2

The wording "serotonin-related diseases" in claims 8-9, "diseases related to the serotonin related 5-HT6 receptor" in claim 12 and "CNS disorders" in claim 14 are too wide and unclear as they do not define exactly which disorders they relate to. These claims are therefore not considered to fulfil the demands of PCT articles 5 and 6. Due to these unclear formulations a meaningful search over the complete scope of claims 8-9,12 and 14 is impossible to perform. The search has been performed as far as possible with these general expressions.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC7: CO7D 209/08, CO7D 453/02, CO7D 403/04, CO7D 487/04, A61K 31/404, A61K 31/439, A61K 31/496, A61P 25/00
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: CO7D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED	TO BE RELEVANT
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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	STN International, file CAPLUS, CAPLUS accession no. 1988:528767, Sakamoto, Takao et al: "Condensed heteroaromatic ring systems. XIII. One-step synthesis of 2-substituted 1-methylsulfonylindoles from N-(2-halophenyl)methanesulfonamides", Chem.Pharm.Bull. (1988), 36(4),1305-8	1
X	EP 0909762 A2 (LONZA A.G.), 21 April 1999 (21.04.99)	1
	 .	

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וא ו	Further documents are listed in the	continuation of Box C.

See patent family annex.

- Special categories of cited documents:
- document defining the general state of the art which is not considered to be of particular relevance
- erlier document but published on or after the international filing date
- document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- document referring to an oral disclosure, use, exhibition or other
- document published prior to the international filing date but later than the priority date claimed
- later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

Date of mailing of the international-tupe search report

"&" document member of the same patent family

Date of the actual completion of the international-type search

2001 -07- 2 7

<u>23 July 2001</u>

Name and mailing address of the ISA Swedish Patent Office Box 5055, S-102 42 STOCKHOLM

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Authorized officer

Solveig Gustavsson/BS Telephone No. + 46 8 782 25 00

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Category	* Citation of document, with indication, where appropriate, of the relevant passages	Relevant to	claim
X	Bioorganic & Medicinal Chemistry Letters, Volume 10, 2000, Methvin Isaac et al, "6-Bicyclopiperazinyl-1-apyleyl61"	1-18	Claim
	6-Bicyclopiperidinyl-1-arylsufonylindoles and Derivatives as Novel, Potent, and Selective 5-HT6 Receptor Antagonists" page 1719 - page 1721		• .
			٠
X	Bioorganic & Medicinal Chemistry Letters, Volume 10, 2000, Yuching Tsai et al, "N1-(Benzenesufonyl)tryptamines as Novel 5-HT6	1-18	
	Antagonists" page 2295 - page 2299		
x	Mod Chan B		
	Med. Chem. Res, Volume 10, No 4, 2000, Mase Lee et al, "5-HT6 Serotonin Receptor Binding Affinities of N1-Benzenesulfonyl and Related Tryptamines" page 230 - page 242	1-18	•
1			
X	WO 004-7-0		
^	WO 9947516 A1 (SLASSI, ABDELMALIK ET AL), 23 September 1999 (23.09.99)	1-18	
X	WO 9965906 A1 (ALLELIX BIOPHARMACEUTICALS INC.), 23 December 1999 (23.12.99)	1-18	· . ·
		•	•
x	US 6133287 A (SLASSI ET AL), 17 October 2000 (17.10.00)	1-18	-
(WO 9603400 A1 (PFIZER INC.), 8 February 1996 (08.02.96)	1-18	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0 9213856 A1 (PFIZER INC.), 20 August 1992 (20.08.92)	1-18	
		• .	•
-			•
			•
-			

Search request No.

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C (Continu	SE 00/012	
C (CONTAIN)	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim
A	WO 0034242 A1 (VIRGINIA COMMONWEALTH UNIVERSITY), 15 June 2000 (15.06.00)	1-18
		
2		
		•

INTERNATION ON PAIENT SEARCH REPORT Information on patent family members

02/07/01

Search request No. SE 00/01238

i - '						
EP	0909762	A2	21/04/99	CA JP US	2249958 A 11228589 A 5929265 A	14/04/99 24/08/99 27/07/99
WO	9947516	A1	23/09/99	AU US	2821799 A 6100291 A	11/10/99 08/08/00
WO	9965906	A1	23/12/99	AU AU AU EP EP WO WO	1704997 A 4253199 A 4992799 A 1105393 A 1108237 A 0011520 A 9830374 A	03/08/98 05/01/00 14/03/00 13/06/01 20/06/01 02/03/00 16/07/98
US	6133287	A	17/10/00	NONE		
WO	9603400	A1	08/02/96	CA EP FI JP	2194984 A 0773942 A 970310 A 9508137 T	08/02/96 21/05/97 24/01/97 19/08/97
WO	9213856	A1	20/08/92	AT AU AU CZ DE	135005 T 655456 B 1263792 A 9301656 A 69208868 D,T	15/03/96 22/12/94 07/09/92 18/05/94 17/10/96
				DK EP SE ES FI	571471 T 0571471 A,B 0571471 T3 2084347 T 933551 A	01/04/96 01/12/93 01/05/96 11/08/93
		-		GR HU HU IE IL JP	3019778 T 65766 A 9302328 D 920442 A 100888 D	31/07/96 28/07/94 00/00/00 12/08/92 00/00/00
				JP MX NO NZ PT ZA	6500122 T 7121942 B 9200569 A 932859 A 241584 A 100114 A 9200969 A	06/01/94 25/12/95 01/08/92 11/08/93 22/12/94 31/05/93 11/08/93
WO (0034242 A	1	5/06/00	AU US	2356200 A 6148334 A	26/06/00 14/11/00

INTERNATIONAL SEARCH REPORT

information on patent family members

Inter 12l Application No PCT/GB 96/01203

Patent document cited in search report	Publication date	Patent family member(s)		Publication date	
WO-A-9402465	03-02-94	AU-B-	4717693	14-02-94	
		CA-A-	2140441	03-02-94	
	•	EP-A-	0652868	17-05-95	
		FI-A-	950375	27-01-95	
	•	HU-A-	72656	28-05-96	
		JP-T-	8503925	30-04-96	
•		NO-A-	950319	27-03-95	
		PL-A-	307265	15-05-95	
		ZA-A-	9305448	19-05-94	
EP-A-0636614	01-02-95	FR-A-	2708608	10-02-95	
2.		AU-B-	6878894	09-02-95	
		CA-A-	2129214	31-01-95	
		CN-A-	1106804	16-08-95	
		FI-A-	943571	31-01-95	
		HU-A-	67801	29-05-95	
		JP-A-	7215947	15-08-95	
		NO-A-	942835	31-01-95	
		NZ-A-	264119	27-02-96	
		ZA-A-	9405655	14-03-95	